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nished with Hartnack objectives. Besides the manufacture of stands, Mr. Schrauer gives special attention to repairing microscopes and other scientific instruments. He also makes the common accessories, including the binocular attachment.

KEITH'S HELIOSTAT. — A new heliostat, designed by Professor Keith, is now made by Edward Kubel, of 326 First Street, Washington, D. C. It is an excellent model, simplified without loss of efficiency, and no doubt the best instrument for the use of microscopists who require direct sunlight, for photography, blue-cell work, or any other purpose. It seems a full substitute for the expensive imported instruments. Its cost is \$50.00.

PROCEEDINGS OF SOCIETIES.

AMERICAN JOURNAL OF SCIENCE AND ARTS. — November. Introduction and Succession of Vertebrate Life in America, by O. C. Marsh. Note on the Helderberg Formation of Bernardston, Massachusetts, and Vernon, Vermont, by J. D. Dana. Is the Existence of Growth-Rings in the early Exogenous Plants Proof of Alternating Seasons? by C. B. Warring. (The foreign journals were not received in time to be noticed.)

BOSTON SOCIETY OF NATURAL HISTORY. — October 17th. Mr. C. S. Minot made a communication on the Unity of all Forms of Muscular Contraction.

November 7th. Professor C. Semper addressed the members on a Land Mollusk from the Philippines; *Onchidium*, and its Dorsal Eyes.

NEW YORK ACADEMY OF SCIENCES. — November 5th. A paper was read by Mr. A. A. Julien, entitled Observations on the Geognosy of North Carolina.

AMERICAN GEOGRAPHICAL SOCIETY. — November 8th. Rev. Selah Merrill delivered a discourse upon Modern Researches in Palestine.

SCIENTIFIC NEWS.

IMPORTANT NOTICE TO SUBSCRIBERS. — The AMERICAN NATURALIST will hereafter be published by Messrs. McCalla & Stavely, Philadelphia, Pa., and will be edited by A. S. Packard, Jr., and Prof. E. D. Cope, with the assistance of eminent men of science. The January number, with an unusually attractive table of contents, will be sent out to past subscribers, and it is earnestly hoped that all will not only renew their subscriptions, but induce others to subscribe. A little effort on the part of the friends of science will now insure the prosperity of this useful and attractive journal.

ERRATA. — Page 72, for *Glivieri* read *Olivieri*. Page 122, for *Peruvian* read *Permanian*. Page 603, fifth line from bottom, for *carpus* read *tarsus*.